

ABSTRACT OF THE DISCLOSURE

A centrifugal separation rotor for an apparatus, which removes contaminants from a pumped liquid, such as engine lubricant, by rotating it about axis at high speed includes a separation and containment vessel that permit liquid to leave the vessel as fast as it can enter, so that a zone is defined adjacent a side wall that holds a volume of liquid less than the whole volume encompassed by the vessel walls and filled in conventional high speed separators. A divider wall surface is interrupted by a set of upstanding vanes, which extend along it and around the axle as a helix of such pitch as to form both collector vanes to guide liquid entering between the rotating vanes towards the transfer passage. Motor vanes receive one or more jets of liquid impinging thereon at a glancing angle to drive the rotor before being guided along the inlet zone.